Anne Anderson

List of Publications by Year
in descending order

100 papers	6,397 citations	40 h-index	78 g-index
101 all docs	101 docs citations	101 times ranked	6219 citing authors

#	Article	IF	Citations
1	Pluronic F68-capped SiO2 nanoparticles are compatible as delivery vehicles to roots and shoots. MRS Advances, 2022, 7, 327.	0.9	1
2	Root-Associated Bacteria Are Biocontrol Agents for Multiple Plant Pests. Microorganisms, 2022, 10, 1053.	3.6	7
3	Absence of Nanoparticle-Induced Drought Tolerance in Nutrient Sufficient Wheat Seedlings. Environmental Science & Technology, 2021, 55, 13541-13550.	10.0	9
4	The Plant-Stress Metabolites, Hexanoic Aacid and Melatonin, Are Potential â€œVaccinesâ€•for Plant Health Promotion. Plant Pathology Journal, 2021, 37, 415-427.	1.7	7
5	A Review of Metal and Metal-Oxide Nanoparticle Coating Technologies to Inhibit Agglomeration and Increase Bioactivity for Agricultural Applications. Agronomy, 2020, 10, 1018.	3.0	62
6	Copper oxide nanoparticle dissolution at alkaline pH is controlled by dissolved organic matter: influence of soil-derived organic matter, wheat, bacteria, and nanoparticle coating. Environmental Science: Nano, 2020, 7, 2618-2631.	4.3	18
7	Abiotic stressors impact outer membrane vesicle composition in a beneficial rhizobacterium: Raman spectroscopy characterization. Scientific Reports, 2020, 10, 21289.	3.3	11
8	Insights into plant-beneficial traits of probiotic Pseudomonas chlororaphis isolates. Journal of Medical Microbiology, 2020, 69, 361-371.	1.8	19
9	Integration of Bacterial Volatile Organic Compounds with Plant Health. , 2020, , 201-213.		0
10	Soil-derived fulvic acid and root exudates, modified by soil bacteria, alter CuO nanoparticle-induced root stunting of wheat <i>via</i> Cu complexation. Environmental Science: Nano, 2019, 6, 3638-3652.	4.3	14
11	Hydrogen cyanide produced by <i>Pseudomonas chlororaphis</i> O6 is a key aphicidal metabolite. Canadian Journal of Microbiology, 2019, 65, 185-190.	1.7	11
12	Rhizosphere pseudomonads as probiotics improving plant health. Molecular Plant Pathology, 2018, 19, 2349-2359.	4.2	53
13	Remodeling of root morphology by CuO and ZnO nanoparticles: effects on drought tolerance for plants colonized by a beneficial pseudomonad. Botany, 2018, 96, 175-186.	1.0	63
14	CuO and ZnO Nanoparticles Modify Interkingdom Cell Signaling Processes Relevant to Crop Production. Journal of Agricultural and Food Chemistry, 2018, 66, 6513-6524.	5.2	60
15	Polyamine is a critical determinant of <i>Pseudomonas chlororaphis</i> O6 for GacSâ€dependent bacterial cell growth and biocontrol capacity. Molecular Plant Pathology, 2018, 19, 1257-1266.	4.2	27
16	Biofilms Benefiting Plants Exposed to ZnO and CuO Nanoparticles Studied with a Root-Mimetic Hollow Fiber Membrane. Journal of Agricultural and Food Chemistry, 2018, 66, 6619-6627.	5.2	13
17	Biopesticides produced by plant-probiotic Pseudomonas chlororaphis isolates. Crop Protection, 2018, 105, 62-69.	2.1	56
18	Biocontrol Efficacy of Formulated Pseudomonas chlororaphis O6 against Plant Diseases and Root-Knot Nematodes. Plant Pathology Journal, 2018, 34, 241-249.	1.7	14

#	Article	IF	Citations
19	Interactions Between a Plant Probiotic and Nanoparticles on Plant Responses Related to Drought Tolerance. Industrial Biotechnology, 2018, 14, 148-156.	0.8	20
20	Rhizosphere interactions between copper oxide nanoparticles and wheat root exudates in a sand matrix: Influences on copper bioavailability and uptake. Environmental Toxicology and Chemistry, 2018, 37, 2619-2632.	4.3	54
21	Hydrogen Cyanide Produced by Pseudomonas chlororaphis O6 Exhibits Nematicidal Activity against Meloidogyne hapla. Plant Pathology Journal, 2018, 34, 35-43.	1.7	41
22	Extracellular Polymeric Substances of Pseudomonas chlororaphis O6 Induce Systemic Drought Tolerance in Plants. Research in Plant Disease, 2018, 24, 242-247.	0.8	7
23	Proteomic Analysis of the GacA Response Regulator in Pseudomonas chlororaphis O6. Research in Plant Disease, 2018, 24, 162-169.	0.8	0
24	The Power of Being Small: Nanosized Products for Agriculture. Research in Plant Disease, 2018, 24, 99-112.	0.8	3
25	Soil chemistry influences the phytotoxicity of metal oxide nanoparticles. International Journal of Nanotechnology, 2017, 14, 15.	0.2	31
26	Cu from dissolution of CuO nanoparticles signals changes in root morphology. Plant Physiology and Biochemistry, 2017, 110, 108-117.	5.8	94
27	The Gac/Rsm Signaling Pathway of a Biocontrol Bacterium, Pseudomonas chlororaphis O6. Research in Plant Disease, 2017, 23, 212-227.	0.8	12
28	A Root-Colonizing Pseudomonad Lessens Stress Responses in Wheat Imposed by CuO Nanoparticles. PLoS ONE, 2016, 11, e0164635.	2.5	27
29	Sublethal doses of ZnO nanoparticles remodel production of cell signaling metabolites in the root colonizer Pseudomonas chlororaphis O6. Environmental Science: Nano, 2016, 3, 1103-1113.	4.3	12
30	Ag nanoparticles generated using bio-reduction and -coating cause microbial killing without cell lysis. BioMetals, 2016, 29, 211-223.	4.1	10
31	Biological Control Potential of Bacillus amyloliquefaciens KB3 Isolated from the Feces of Allomyrina dichotoma Larvae. Plant Pathology Journal, 2016, 32, 273-280.	1.7	27
32	Salts affect the interaction of ZnO or CuO nanoparticles with wheat. Environmental Toxicology and Chemistry, 2015, 34, 2116-2125.	4.3	33
33	Pesticidal activity of metal oxide nanoparticles on plant pathogenic isolates of Pythium. Ecotoxicology, 2015, 24, 1305-1314.	2.4	75
34	The phytotoxicity of ZnO nanoparticles on wheat varies with soil properties. BioMetals, 2015, 28, 101-112.	4.1	134
35	Nano-CuO and interaction with nano-ZnO or soil bacterium provide evidence for the interference of nanoparticles in metal nutrition of plants. Ecotoxicology, 2015, 24, 119-129.	2.4	144
36	Toxicity of fungal-generated silver nanoparticles to soil-inhabiting Pseudomonas putida KT2440, a rhizospheric bacterium responsible for plant protection and bioremediation. Journal of Hazardous Materials, 2015, 286, 48-54.	12.4	26

#	ARTICLE	IF	CITATIONS
37	ZnO nanoparticles and root colonization by a beneficial pseudomonad influence essential metal responses in bean (<i>Phaseolus vulgaris</i>). Nanotoxicology, 2015, 9, 271-278.	3.0	74
38	The global regulator GacS regulates biofilm formation in <i>Pseudomonas chlororaphis</i> O6 differently with carbon source. Canadian Journal of Microbiology, 2014, 60, 133-138.	1.7	12
39	Components from wheat roots modify the bioactivity of ZnO and CuO nanoparticles in a soil bacterium. Environmental Pollution, 2014, 187, 65-72.	7.5	36
40	An instrument design for non-contact detection of biomolecules and minerals on Mars using fluorescence. Journal of Biological Engineering, 2014, 8, 16.	4.7	14
41	Proteomic Analysis of a Global Regulator GacS Sensor Kinase in the Rhizobacterium, Pseudomonas chlororaphis O6. Plant Pathology Journal, 2014, 30, 220-227.	1.7	14
42	The Sensor Kinase GacS Negatively Regulates Flagellar Formation and Motility in a Biocontrol Bacterium, Pseudomonas chlororaphis O6. Plant Pathology Journal, 2014, 30, 215-219.	1.7	14
43	Utilization of pyrene and benzoate in <i>Mycobacterium</i> isolate KMS is regulated differentially by catabolic repression. Journal of Basic Microbiology, 2013, 53, 81-92.	3.3	6
44	Antifungal activity of ZnO nanoparticles and their interactive effect with a biocontrol bacterium on growth antagonism of the plant pathogen Fusarium graminearum. BioMetals, 2013, 26, 913-924.	4.1	192
45	The Gluconeogenic Pathway in a Soil Mycobacterium Isolate with Bioremediation Ability. Current Microbiology, 2013, 66, 122-131.	2.2	4
46	The GacS-regulated sigma factor RpoS governs production of several factors involved in biocontrol activity of the rhizobacterium <i>Pseudomonas chlororaphis</i> O6. Canadian Journal of Microbiology, 2013, 59, 556-562.	1.7	18
47	Fate of CuO and ZnO Nano- and Microparticles in the Plant Environment. Environmental Science & Technology, 2013, 47, 4734-4742.	10.0	246
48	Silver Nanoparticles Disrupt Wheat (<i>Triticum aestivum</i> L.) Growth in a Sand Matrix. Environmental Science & Technology, 2013, 47, 1082-1090.	10.0	299
49	Does doping with aluminum alter the effects of ZnO nanoparticles on the metabolism of soil pseudomonads?. Microbiological Research, 2013, 168, 91-98.	5.3	21
50	Effect of complexing ligands on the surface adsorption, internalization, and bioresponse of copper and cadmium in a soil bacterium, Pseudomonas putida. Chemosphere, 2013, 91, 374-382.	8.2	24
51	The RpoS Sigma Factor Negatively Regulates Production of IAA and Siderophore in a Biocontrol Rhizobacterium, Pseudomonas chlororaphis O6. Plant Pathology Journal, 2013, 29, 323-329.	1.7	16
52	Nitric Oxide and Hydrogen Peroxide Production are Involved in Systemic Drought Tolerance Induced by 2R,3R-Butanediol in Arabidopsis thaliana. Plant Pathology Journal, 2013, 29, 427-434.	1.7	39
53	CuO and ZnO nanoparticles: phytotoxicity, metal speciation, and induction of oxidative stress in sand-grown wheat. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	514
54	Polycyclic aromatic hydrocarbon degrading gene islands in five pyrene-degrading Mycobacterium isolates from different geographic locations. Canadian Journal of Microbiology, 2012, 58, 102-111.	1.7	13

#	Article	IF	Citations
55	Production of Indole-3-Acetic Acid via the Indole-3-Acetamide Pathway in the Plant-Beneficial Bacterium Pseudomonas chlororaphis O6 Is Inhibited by ZnO Nanoparticles but Enhanced by CuO Nanoparticles. Applied and Environmental Microbiology, 2012, 78, 1404-1410.	3.1	98
56	Nanospecific Inhibition of Pyoverdine Siderophore Production in <i>Pseudomonas chlororaphis</i> O6 by CuO Nanoparticles. Chemical Research in Toxicology, 2012, 25, 1066-1074.	3.3	50
57	Bioactivity and Biomodification of Ag, ZnO, and CuO Nanoparticles with Relevance to Plant Performance in Agriculture. Industrial Biotechnology, 2012, 8, 344-357.	0.8	74
58	Comparative Genomics of Plant-Associated Pseudomonas spp.: Insights into Diversity and Inheritance of Traits Involved in Multitrophic Interactions. PLoS Genetics, 2012, 8, e1002784.	3.5	578
59	CuO and ZnO nanoparticles differently affect the secretion of fluorescent siderophores in the beneficial root colonizer,<i>Pseudomonas chlororaphis</i>O6. Nanotoxicology, 2012, 6, 635-642.	3.0	69
60	Multiplicity of genes for aromatic ring-hydroxylating dioxygenases in Mycobacterium isolate KMS and their regulation. Biodegradation, 2012, 23, 585-596.	3.0	9
61	Soil components mitigate the antimicrobial effects of silver nanoparticles towards a beneficial soil bacterium, Pseudomonas chlororaphis O6. Science of the Total Environment, 2012, 429, 215-222.	8.0	86
62	Production of the antifungal compounds phenazine and pyrrolnitrin from Pseudomonas chlororaphis O6 is differentially regulated by glucose. Letters in Applied Microbiology, 2011, 52, 532-537.	2.2	79
63	Responses of a soil bacterium, Pseudomonas chlororaphis O6 to commercial metal oxide nanoparticles compared with responses to metal ions. Environmental Pollution, 2011, 159, 1749-1756.	7.5	144
64	Interaction of silver nanoparticles with an environmentally beneficial bacterium, Pseudomonas chlororaphis. Journal of Hazardous Materials, 2011, 188, 428-435.	12.4	100
65	Pluronics' influence on pseudomonad biofilm and phenazine production. FEMS Microbiology Letters, 2009, 293, 148-153.	1.8	17
66	Copper and cadmium: responses in<i>Pseudomonas putida</i>KT2440. Letters in Applied Microbiology, 2009, 49, 775-783.	2.2	62
67	Antimicrobial activities of commercial nanoparticles against an environmental soil microbe, Pseudomonas putida KT2440. Journal of Biological Engineering, 2009, 3, 9.	4.7	252
68	2R,3R-Butanediol, a Bacterial Volatile Produced by <i>Pseudomonas chlororaphis</i> O6, Is Involved in Induction of Systemic Tolerance to Drought in <i>Arabidopsis thaliana</i>. Molecular Plant-Microbe Interactions, 2008, 21, 1067-1075.	2.6	367
69	Pyrene Mineralization by Mycobacterium sp. Strain KMS in a Barley Rhizosphere. Journal of Environmental Quality, 2007, 36, 1260-1265.	2.0	45
70	Mutation in the edd gene encoding the 6-phosphogluconate dehydratase of Pseudomonas chlororaphis O6 impairs root colonization and is correlated with reduced induction of systemic resistance. Letters in Applied Microbiology, 2007, 44, 56-61.	2.2	9
71	Polycyclic aromatic hydrocarbon-degrading Mycobacterium isolates: their association with plant roots. Applied Microbiology and Biotechnology, 2007, 75, 655-663.	3.6	50
72	Tobacco cultivars vary in induction of systemic resistance against Cucumber mosaic virus and growth promotion by Pseudomonas chlororaphis O6 and its gacS mutant. European Journal of Plant Pathology, 2007, 119, 383-390.	1.7	33

#	Article	IF	Citations
73	Inhibition of seed germination and induction of systemic disease resistance by Pseudomonas chlororaphis O6 requires phenazine production regulated by the global regulator, gacS. Journal of Microbiology and Biotechnology, 2007, 17, 586-93.	2.1	30
74	GacS-Dependent Production of 2R, 3R-Butanediol by Pseudomonas chlororaphis O6 Is a Major Determinant for Eliciting Systemic Resistance Against Erwinia carotovora but not Against Pseudomonas syringae pv. tabaci in Tobacco. Molecular Plant-Microbe Interactions, 2006, 19, 924-930.	2.6	206
75	ThedctAgene ofPseudomonas chlororaphisO6 is under RpoN control and is required for effective root colonization and induction of systemic resistance. FEMS Microbiology Letters, 2006, 256, 98-104.	1.8	15
76	Multiple determinants influence root colonization and induction of induced systemic resistance by Pseudomonas chlororaphis O6. Molecular Plant Pathology, 2006, 7, 463-472.	4.2	39
77	Production of Indole-3-Acetic Acid in the Plant-Beneficial Strain Pseudomonas chlororaphis O6 Is Negatively Regulated by the Global Sensor Kinase GacS. Current Microbiology, 2006, 52, 473-476.	2.2	72
78	Study of Biochemical Pathways and Enzymes Involved in Pyrene Degradation by Mycobacterium sp. Strain KMS. Applied and Environmental Microbiology, 2006, 72, 7821-7828.	3.1	108
79	Two isolates ofFusarium proliferatumfrom different habitats and global locations have similar abilities to degrade lignin. FEMS Microbiology Letters, 2005, 249, 149-155.	1.8	21
80	Activation of Defense Pathways: Synergism between Reactive Oxygen Species and Salicylic Acid and Consideration of Field Applicability. European Journal of Plant Pathology, 2004, 110, 203-212.	1.7	9
81	Isolation and Characterization of Polycyclic Aromatic Hydrocarbon?Degrading Mycobacterium Isolates from Soil. Microbial Ecology, 2004, 48, 230-238.	2.8	121
82	The global regulator GacS of a biocontrol bacterium Pseudomonas chlororaphis O6 regulates transcription from the rpoS gene encoding a stationary-phase sigma factor and affects survival in oxidative stress. Gene, 2004, 325, 137-143.	2.2	31
83	Induced defence in tobacco by Pseudomonas chlororaphis strain O6 involves at least the ethylene pathway. Physiological and Molecular Plant Pathology, 2003, 63, 27-34.	2.5	82
84	Induction of tolerance to root-knot nematode by oxycom. Journal of Nematology, 2003, 35, 306-13.	0.9	4
85	Catalase activity and the survival of Pseudomonas putida, a root colonizer, upon treatment with peracetic acid. Canadian Journal of Microbiology, 2001, 47, 222-228.	1.7	13
86	Catalase Activities of Phanerochaete chrysosporium Are Not Coordinately Produced with Ligninolytic Metabolism: Catalases from a White-Rot Fungus. Current Microbiology, 2001, 42, 8-11.	2.2	33
87	Effects of UVB Irradiance on Conidia and Germinants of the Entomopathogenic Hyphomycete Metarhizium anisopliae: A Study of Reciprocity and RecoveryÂ¶. Photochemistry and Photobiology, 2001, 73, 140-146.	2.5	6
88	Both Solar UVA and UVB Radiation Impair Conidial Culturability and Delay Germination in the Entomopathogenic Fungus Metarhizium anisopliaeÂ¶. Photochemistry and Photobiology, 2001, 74, 734-739.	2.5	12
89	Catalase activity and the survival of <i>Pseudomonas putida</i>, a root colonizer, upon treatment with peracetic acid. Canadian Journal of Microbiology, 2001, 47, 222-228.	1.7	5
90	Superoxide Dismutase Activity in Pseudomonas putida Affects Utilization of Sugars and Growth on Root Surfaces. Applied and Environmental Microbiology, 2000, 66, 1460-1467.	3.1	46

#	Article	IF	Citations
91	Regulation of arbuscule formation by carbon in the plant. Plant Journal, 1998, 16, 523-530.	5.7	100
92	Increased emergence of spring wheat after inoculation with Pseudomonas chlororaphis isolate 2E3 under field and laboratory conditions. Biology and Fertility of Soils, 1996, 23, 200-206.	4.3	30
93	Increased emergence of spring wheat after inoculation with Pseudomonas chlororaphis isolate 2E3 under field and laboratory conditions. Biology and Fertility of Soils, 1996, 23, 200-206.	4.3	3
94	Cloning and characterization of the katB gene of Pseudomonas aeruginosa encoding a hydrogen peroxide-inducible catalase: purification of KatB, cellular localization, and demonstration that it is essential for optimal resistance to hydrogen peroxide. Journal of Bacteriology, 1995, 177, 6536-6544.	2.2	163
95	Influence of root colonizing bacteria on the defense responses of bean. Plant and Soil, 1992, 140, 99-107.	3.7	150
96	Genetic Analysis of theaggALocus Involved in Agglutination and Adherence ofPseudomonas putida,a Beneficial Fluorescent Pseudomonad. Molecular Plant-Microbe Interactions, 1992, 5, 154.	2.6	54
97	Catalase and Superoxide Dismutase of Root-Colonizing Saprophytic Fluorescent Pseudomonads. Applied and Environmental Microbiology, 1990, 56, 3576-3582.	3.1	46
98	Molecular Studies on the Role of a Root Surface Agglutinin in Adherence and Colonization by <i>Pseudomonas putida</i>. Applied and Environmental Microbiology, 1988, 54, 375-380.	3.1	97
99	Differences Between Lipopolysaccharide Compositions of Plant Pathogenic and Saprophytic Pseudomonas Species. Applied and Environmental Microbiology, 1984, 48, 31-35.	3.1	24
100	Induced resistance against a bacterial disease by orysastrobin, a chemical fungicide. European Journal of Plant Pathology, 0, , 1.	1.7	4